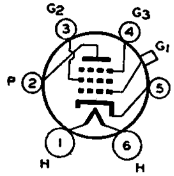


RCA-6D6

TRIPLE-GRID SUPER-CONTROL AMPLIFIER



The 6D6 is a triple-grid super-control amplifier tube recommended for service in the radio-frequency and intermediate-frequency stages of radio receivers designed for its characteristics. The ability of this tube to handle the usual signal voltages without cross-modulation and modulation-distortion makes it adaptable to the r-f and i-f stages of receivers employing automatic volume control. The 6D6 is constructed with an internal shield connected to the cathode within the tube.

CHARACTERISTICS

Heater Voltage (A. C. or D. C.)		6.3	Volts
Heater Current		0.3	Ampere
Plate Voltage	100	250 *max.*	Volts
Screen Voltage	100	100 *max.*	Volts
Grid Voltage (Minimum)	−3	−3	Volts
Suppressor	Connected to cathode at socket		
Plate Current	8	8.2	Milliamperes
Screen Current	2.2	2.0	Milliamperes
Plate Resistance	0.25	0.8	Megohm
Amplification Factor	375	1280	
Transconductance	1500	1600	Micromhos
Transconductance (At −50 volts bias)	2	2	Micromhos
Grid-Plate Capacitance (With shield-can)		0.007 *max.*	μμf
Input Capacitance		4.7	μμf
Output Capacitance		6.5	μμf
Bulb			ST-12
Cap			Small Metal
Base			Small 6-Pin

INSTALLATION AND APPLICATION

The **base** pins of the 6D6 fit the standard six-contact socket which may be installed to hold the tube in any position.

For **heater** operation and **cathode** connection, refer to INSTALLATION for type 6A8.

For **control-grid bias, screen** voltage, and **suppressor** connection, refer to INSTALLATION on type 6K7. **Shielding** requirements are similar to those for type 6C6.

Refer to APPLICATION on type 6K7. A plate family of curves is given under type 58.